

Work Order ID 163235

163235

Page 1

Tuesday, June 27, 2017 9:53:22 AM

Item ID: D5373-11 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Oil Drain Line
 Start Date: 6/27/2017 Start Qty: 4.00 *4* Cust Item ID:
 Required Date: 7/11/2017 Req'd Qty: 4.00 *4* Customer:
 Reference:

Approvals: Process Plan: DAS 21 Date: JUN 27 2017 Tooling: _____ Date: _____ Run Start *NR1*
 QC: 3-SS Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D5373	D								

100 0.00 4 JUN 28 2017 DAS 13 9-SS

100

Purchasing

Purchasing

Memo

Issue P/O: 36860

Purchase Part Number: 101062B0190CR270

Supplier: STRATOFLEX

Certificate of conformity is required

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

0.00

4x SQ 17-7-10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
		OTHER :							

Tuesday, June 27, 2017 9:53:22 AM

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[illegible]

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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

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Tuesday, June 27, 2017 9:53:22 AM

163235

Page 3

Item ID: D5373-11

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Oil Drain Line

Start Date: 6/27/2017 Start Qty: 4.00

4

Cust Item ID:

Required Date: 7/11/2017 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start ***NR1***

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

123

QC8- Inspect parts - second check

0.00

123

QC

Memo

0.00

Quality Control

4

Ø

DAS

44

9-89

17-08-23

130

0.00

130

Small Fab

Memo

0.24

Small Fab

INSTALL LABEL D2729 AS PER DWG NOTES

4

MCC

17-8-24

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.00

Quality Control

4

DAS

38

9-89

AUG 25 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Identify as per dwg & Stock Location: <u>54222</u>	0.00							
150									
Packaging	Memo	0.00							
Packaging									
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.00							
Quality Control									

4 AUG 29 2017 DAS
6
9-89
17/9/15 20

AUG 29 2017**DAS**
21
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
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Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
OTHER : ☐									

Tuesday, June 27, 2017 9:53:26 AM

163235

D5373-11

Start Date: 6/27/2017

Required Date: 7/11/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A 17.05.17 NEW ISSUE DD VERF:JFS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
101062B0190CR270	Purchased	No				100	Each	0.0000	1	4			
* 101062B0190CR270*									**	<u>4x sp 17-7-10</u>			
Oil Drain Line													
D2182-045	Manufactured	No				130	Each	15.0000	1	4			
* D2182-045*									**	<u>MLL</u>			
Heat Shrink 4.5" Long												<u>17-8-29</u>	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				GA		14							
				<u>162954</u>		14				<u>4</u>			
				ST003		1							
				<u>141023</u>		1							
D2729-4	Manufactured	Yes				130	Each	0.0000	1	4			
* D2729-4*									**	<u>4</u>		<u>MLL</u>	
Red Decal												<u>17-8-29</u>	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

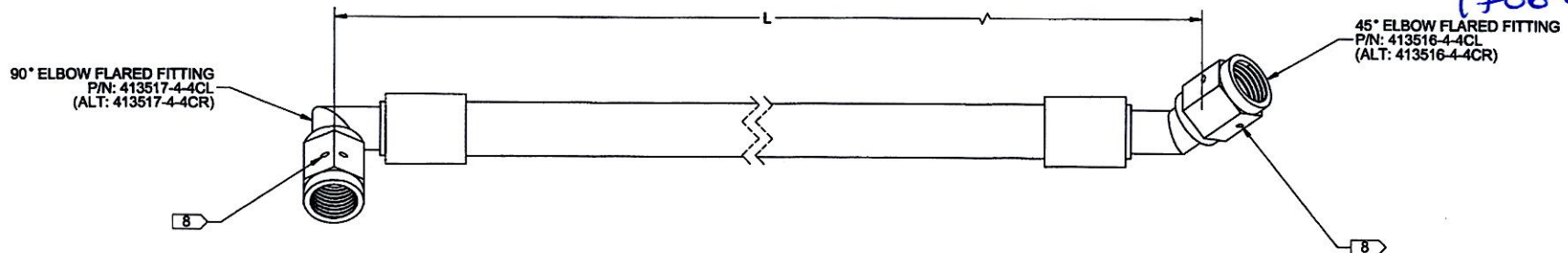
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

SPECIFICATION CONTROL DRAWING

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 163235 MJS
1706-27



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-11	OIL DRAIN LINE	STRATOFLEX	101062B0190CL270	19	0.500	0.173	0.27	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
			ALT: 101062B0190CR270								

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE
- 8) FOR ALTERNATE PART NUMBERS (101062BXXXXCRXXXX), DRILL LOCK-WIRE HOLES PER SHEET 4, DETAIL A

RELEASED
2017-05-16

APPROVED

DESIGN	CC	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	WK		
CHECKED	VS	DRAWING NO.	REV. D
MFG. APPR.	LL	D5373	SHEET 3 OF 4
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	OIL DRAIN LINE	NTS
DATE	17.04.25	COPYRIGHT © 2016 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

DQA: _____ Date: _____

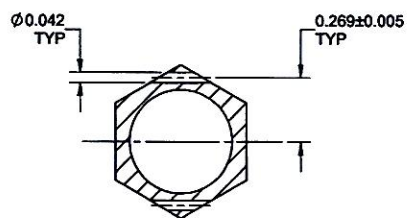
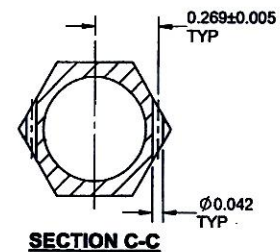
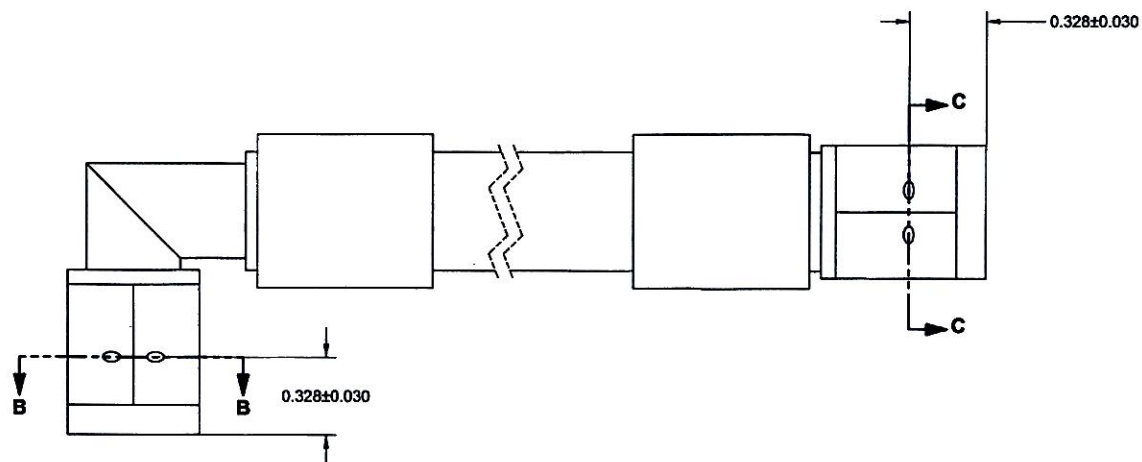


WORK ORDER NON-CONFORMANCE / UPDATE

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Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
		OTHER : ☐							



SECTION B-B

DETAIL A - LOCKWIRE HOLES (TYPICAL)

RELEASE
2017-05-16

APPROVED

DESIGN	CC	DART AEROSPACE USA, INC.	
DRAWN	WK	EUGENE, OR, USA	
CHECKED	VS	DRAWING NO.	REV. D
MFG. APPR.	LL	D5373	SHEET 4 OF 4
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	OIL DRAIN LINE	NTS
DATE	17.04.25	COPYRIGHT © 2016 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMERCIALIZED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

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Misidentified ☐	Past Due ☐								



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36860**

Purchase Order Date 6/28/2017

PO Print Date 7/3/2017

Page Number 2 of 8

Order From :

VU-AVI003

Ship To : DART AEROSPACE LTD

AVIALL
PO BOX 842275

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

DALLAS, TX 75284-2275
USA

Contact Name

Vendor Phone

905-676-1695

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

EXW - (Ex Works)

Line Total: \$1,347.69

4	156001-3S-0154	Hose Assembly	7/11/2017	3.00	\$106.85	\$320.55
			Yes	Each		
			7/11/2017			

AS PER DWG D4002 REV. D
B163237

Line Total: \$320.55

5	101062B0190CR270	Oil Drain Line	7/11/2017 FN	4.00	\$224.53	\$898.12
			Yes	Each		
			7/11/2017			

AS PER DWG D5373 REV. D
B163235

8217-7-10

DAS
38
9-89

Line Total: \$898.12

6	101005-4CR0170	Oil Drain Line	7/11/2017 FN	4.00	\$146.22	\$584.88
			Yes	Each		
			7/11/2017			

AS PER DWG D5373 REV. D
B163234

PO Instructions: Fedex Acc#151793240

Note:

7/3/2017



PACKING LIST



DELIVERY NUMBER: 8004656664

ROUTE: US FedEx International Priority

PAGE:1 of 2
DATE:05JUL17
TIME:15:41:35
EMP:00000000
ORD TYP: ZOR 169
CURRENCY:USD
TERMS:Net 30

CUSTOMER PO:PO36860
ORDER NUMBER:1003226921
ORDER DATE:30JUN17

B 10003952
I DART AEROSPACE LTD
L 1270 ABERDEEN STREET
L HAWKESBURY ON K6A 1K7
T CANADA
O

S 10003952
H DART AEROSPACE LTD
I 1270 ABERDEEN STREET
P HAWKESBURY ON K6A 1K7
T CANADA
O

S 1009
H AVIALL DALLAS HOSE SHOP
I DALLAS HOSE SHOP
P 2755 REGENT BLVD
F DFW AIRPORT TX 75261
R USA
O

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	0	1S	156005-6D0213 HOSE: MED PRESSURE,RUBBER	2	2	0	EA		227.29	454.58
			BATCH 100127338		2					
00020	0	1S	156003-6D0102 HOSE: MED PRESSURE,RUBBER	2	2	0	EA		178.08	356.16
			BATCH 100127339		2					
00030	0	1S	156001-3S0185 HOSE: MED PRESSURE,RUBBER	3	3	0	EA		449.23	1,347.69
			BATCH 100127340		3					
00040	0	1S	156001-3S0154 HOSE: MED PRESSURE,RUBBER	3	3	0	EA		106.85	320.55
			BATCH 100127341		3					
00050	0	1S	101062B0190C270 HOSE: LT	4	4	0	EA		224.53	898.12

This is not an Invoice.
For payment processing, please refer to Invoice.

SPT-7-10
DAS
38
9-29

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods. Diversion contrary to U.S. Law is prohibited.	
CERTIFICATE OF CONFORMANCE It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component. <i>[Signature]</i> AV20 RS-06	DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL RETURNED MERCHANDISE SUBJECT TO HANDLING FEE. THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH THE PROVISIONS OF THE FAIR LABOR ACT OF 1938 AMENDED. CUSTOMER COPY
JR Hofmann, Director, Global Quality	05JUL17 Date



PACKING LIST



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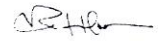
B 10003952
I DART AEROSPACE LTD
L 1270 ABERDEEN STREET
L HAWKESBURY ON K6A 1K7
T CANADA
O

S 10003952
H DART AEROSPACE LTD
I 1270 ABERDEEN STREET
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T CANADA
O

S 1009
H AVIALL DALLAS HOSE SHOP
I DALLAS HOSE SHOP
P 2755 REGENT BLVD
F DFW AIRPORT TX 75261
R USA
O M

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
			PRESSURE,PTFE,ASSEMBLY							
00060	0	1S	BATCH 100127342 101005-4CR0170 HOSE: LT PRESSURE,PTFE,ASSEMBLY	4	4		0 EA		146.22	584.88
00070	0	1S	BATCH 100127343 101005-4CR0150 HOSE: LT PRESSURE,PTFE	4	4		0 EA		141.40	565.60
			BATCH 100127344		4					

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05JUL17
Date



Hose Shop 2755 Regent Blvd. DFW Airport 75261
Phone 972-586-1380 Fax 972-586-1381 www.aviall.com

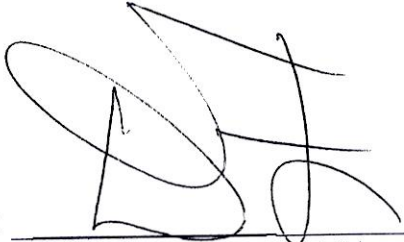
TSO CERTIFICATION

It is hereby certified that (A) The parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control system/methods as set forth in the FAA issued technical standard order authorizations (TSOA) issued to Stratoflex and (B) such part and/or materials are new and are in condition for safe operation.

AviAll Order Number: 1003226921

Part Numbers:

1. 156001-3S0185 3EA.
2. 156001-3S0154 3EA.
3. 156005-6D0213 2EA.
4. 156003-6D0102 2EA.
5. 101062B0190C270 4EA.
6. 101005-4CR0170 4EA.
7. 101005-4CR0150 4EA.

Signed: 

Date: 7-5-17

"AviAll is not providing OEM parts. AviAll is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference ONLY and are in no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR Part 43".

If applicable, satisfactory compliance with the conditions and tests required for TSO approval indicates the hose assembly has met the minimum performance standards as stated in the TSO. Furthermore, it is the responsibility of the installer to determine the installation eligibility and that it will not cause the hose assembly to be subjected to conditions in excess of those for which it has been approved.

FORM# CERT -001

